

The Chemical Age

Index to Volume VIII. January-June, 1923

A

- Acids and Alkalies, Manufacture of: P. Parrish, 560
Agriculture, Some Chemical Aspects of: E. Holmes, 80
Air Compressors, Design of, 143
Alcohol Fuel, 234
Alexander, Sir Wm., on Trade Conditions, 59
Alkali Industry, Centenary Celebrations of the, 421, 454
Alkalies, Manufacture of Acids and: P. Parrish, 560.
Alloys, The Structure of, 481
Aluminum Chloride, Anhydrous, Storage of, 501
America, Chemical Research in, 534
American and Sicilian Sulphur, 542
American Chemical Society's New President, 9
American Dyestuffs Manufacture, 37
American Fine Chemical Industry, 372
American Institute of Chemistry, An., 210, 237
Ammonium Nitrate, Explosibility of, 274
Analytical Control in the Dyestuffs Industry, 255
Apple Oil, Synthetic, Discovery, 43
Armstrong, Dr. E. F.: Address at Cambridge, 666
Arsenic in Cocoa, 38
Arsenic, Detection of Small Quantities of, 10
Arsenic Position in America, The, 62
Ashes, Recovery of Fuel from, 638
Associated Portland Cement Manufacturers, 428

Authors—continued

- PRIDEAUX, Dr. E. B. R.: New Theories of Valency, 138
SEYMOUR, Hartland: The Nitrogen Industry in the United States, 6
SPIELMANN, Dr. Percy E.: The Growing Chemical Industry of Palestine, 114
TANKARD, Arnold R.: The Influence of Science on Human Life, 390, 418
WILLIAMSON, Dr. Sidney: The Present Position of Nitrogenous Fertilisers, 84

B

- Baeyer Memorial Lecture, 536
Beilby, Sir George, and Fuel Research, 649
Benn Brothers, Ltd.: Ernest Benn, Ltd., 370
Benzene and Naphthalene, Hydrogenation Products of, 486
Benzol from Blast Furnace Gases, 460
Benzol, Recovery and Rectification of, 343, 593
Bio-Chemical Society, 35
Birmingham Metallurgical Society, 235
Bookman and Scientist, Treasures for the, 514
Borax Consolidated, Ltd., 208
Bradford Dyers' Association, 232
Breathing Appliances in Chemical Works, The Use of: Dr. L. Levy, 362
British Aluminum Co., 371
British Association of Chemists, 535
British Burmah Petroleum Co., Ltd., 15
British Chemical Industry, Present Position of, 617
British Chemical and Dyestuff Traders' Association, 508, 621
British Chemical Progress since 1914, 259
British Chemical Standard, New, 178
British Chemical Standards Movement, 287
British Colour Industry, The Future of the, 231
British Fine Chemicals, Progress in, 167
British Industries Fair, 31, 56, 116, 142, 195, 203, 227-230
British Portland Cement Manufacturers, 371
Brotherton, Sir E. A., on Trade Conditions, 58
Brunner, Mond and Co., Ltd., 605, 671
Butters Nitrate Process, The, 90
"By-Product Coking," 595

C

- Calcium Carbide, Power Alcohol from: Rex Furness, 280, 304
Canada, Chemical Industry in, 571
Canada, Chemical Production in, 568
Cancer from Paraffin and Tar, 514
Carbon Black and Lamp Black, Production and Uses of: Rex Furness, 532
Cast Iron, Research on Fundamental Properties of, 8
Catalyst Poisoning, 233
Centenary of the British Alkali Industry, 421

- Centrifugal Force and Varnish Clarification, 261
Charcoal Catalyst, Experiments with a Growth-Impregnated: A. Pickles, 166
"Chemical Defence" in Russia, 662
Chemical Engineering Catalog, The, 208
Chemical Engineering Group, 168, 509
Chemical Engineering Institute Seal, 262
Chemical Industries of Russia, Position of the, 484
Chemical Industry of Palestine: Dr. Percy E. Spielmann, 114
Chemical Inspection, 206
Chemical Laboratories, The Planning of, 310
Chemical Plant, Recent Developments in, 34
Chemical Research at Bangalore, 38
Chemical Society, The, 148, 536
Chemical Society of the University of Birmingham, 233, 285
Chemical Trade in May, 641
Chemical Trade and Industry Abroad, 336
Chemical Warfare Problem, The, 121
Chemicals and Fertilisers in Germany 429
Chemistry in War, The Place of, 288
Chemists' Exhibition, The, 711
Chilean *v.* Synthetic Nitrate, 208
China Clay Brochure, A, 287
"Ciment Fondu." The Properties of, 539
Clay, The Purification of, 57
Coal Resources, Physical and Chemical Survey of, 679
Coal Tar Dyes, 147
Coke Oven Managers' Association, 121, 593
Colloid Research Laboratory for Manchester, 250
Colloids, Electric Charge of, 513
Colour Identification, 307
Colour Industry, British, The Future of the, 231
Colour Makers, Training of, 434
Colour Users' Association, Annual Meeting of, 670
Colours, A System of Harmonising, 620

Commercial Intelligence—

- Ascott's Drug Stores: Bankruptcy Proceedings, 96
Bishop, J. D. and Co., Ltd.: Voluntary Liquidation, 237
Boots Cash Chemists (Western), Ltd.: Potassium carbonate, 414
Bredt, William: Sale of Foreign Medicines, 95
Britannia Fertiliser Co., Ltd.: Compulsory Liquidation, 61
Brown and Hall: Public Examination, 48
Cesaris, Ened: Bankruptcy Proceedings, 346
Chemicals and By-Products, Ltd.: Meeting of Creditors, 120
Coe, William W.: Bankruptcy Proceedings, 502
Cumberland Coal Power and Chemicals, Ltd.: Voluntary Liquidation, 64
Davidson and Lyell: Bankruptcy Proceedings, 188, 442
Davis, Theophilus Morgan: Public Examination, 312
Duroline Manufacturing Co., Ltd.: Voluntary Liquidation, 209
Fine Chemicals, Ltd.: Meeting of Creditors, 312
Ford, F., and Co.: Bankruptcy Proceedings, 235
- Anglo-American Unity, 5
Borax Prices, 482
Butters Nitrate Process, 284
Chemical Manufacturers' Prices, 144
Chemical Manufacturers' Quotations, 119
Chemical Salesmanship, 119
Chemical Societies' Work, 5
"Chemist," The Title of, 309, 391, 459, 482
Collod Chemistry, 234
Colour Makers, Making, 482
Dyestuffs, Research into, 562
Income Tax Deductions, 38, 483
Industrial Welfare Society, 535
Laboratory Porcelain Crucibles, 459
Margarine, The Analysis of, 591
Money from Ashes, 309
Nitrate from the Air, 535
Nitrogen Industry, The, 482
Nitrogen Industry in France, 419
Oil Fuel for Clay Drying, 703
Oxygen, Industrial, 391
Poison Gas as a Cure for Disease, 591
Poisons, Colouring of, 119
Property, Revaluation of, 562
Ruhr and British Dyes, The, 175, 284
Stainless Steel, 262
Sulphate, Neutral, 309
Titration, Accuracy of, 540
Trade Names and Chemical Formulae, 364, 391
Training for Industry too Academical, 63
"Unemployed," 108, 175
What is a Chemist? 535
Young Chemist, The Case of the, 118, 144

Commercial Intelligence—continued

- Heyl, George Edward: Bankruptcy Proceedings, 525
Hughes, Hugh Augustus: Discharge Suspended, 97
Kelaato and Recelt Co., Ltd.: Meeting of Creditors, 429
Kremers, A. T., Manufacturing Co., Ltd.: Compulsory Liquidation, 9
Magradi Soda Co., 673
Milton Manufacturing Co., The: Meeting of Creditors, 97
Noble, W.: Public Examination, 123
Norris, Alfred: Bankruptcy Proceedings, 178
Parker and Lester, Ltd.: Meeting of Creditors, 123
Pearson, Samuel Richard: Bankruptcy Proceedings, 37
Powell, F. W.: Meeting of Creditors, 678
Roller and Co., Ltd., J. M.: Voluntary Winding-up, 119
Russell Oil and Chemical Co., Ltd.: Compulsory Liquidation, 569
Sankey's Drug Stores: Bankruptcy Proceedings, 513
Sapon Soaps, Ltd.: Liquidation of, 686
Stone and Timson: Meeting of Creditors, 237
Tomseloid Manufacturing Co., Ltd.: Meeting of Creditors, 37
Wulfsberg and Co.: Bankruptcy Proceedings, 269
- Communism Analysed and Exposed, 236
Compressed Gases, Notes on the Handling of, 592
Confederation Life Association, The, 659

Correspondence—

- Anglo-American Unity, 5
Borax Prices, 482
Butters Nitrate Process, 284
Chemical Manufacturers' Prices, 144
Chemical Manufacturers' Quotations, 119
Chemical Salesmanship, 119
Chemical Societies' Work, 5
"Chemist," The Title of, 309, 391, 459, 482
Collod Chemistry, 234
Colour Makers, Making, 482
Dyestuffs, Research into, 562
Income Tax Deductions, 38, 483
Industrial Welfare Society, 535
Laboratory Porcelain Crucibles, 459
Margarine, The Analysis of, 591
Money from Ashes, 309
Nitrate from the Air, 535
Nitrogen Industry, The, 482
Nitrogen Industry in France, 419
Oil Fuel for Clay Drying, 703
Oxygen, Industrial, 391
Poison Gas as a Cure for Disease, 591
Poisons, Colouring of, 119
Property, Revaluation of, 562
Ruhr and British Dyes, The, 175, 284
Stainless Steel, 262
Sulphate, Neutral, 309
Titration, Accuracy of, 540
Trade Names and Chemical Formulae, 364, 391
Training for Industry too Academical, 63
"Unemployed," 108, 175
What is a Chemist? 535
Young Chemist, The Case of the, 118, 144

Corrosion Problems, Joint Conference on, 394
Costing in Chemical Works, Methods of : F. M. Potter, 588, 612
Crystal Analysis, New Methods of, 122

Department of Overseas Trade, Work of the, 341
Detergent Action, Modern Theories of : T. Hedley Barry, 446
Diazo Coupling Reactions, Mechanism of, 461
Donnan, Professor F. G., 488, 534
"Drug and Chemical Markets" Guide Book, 261
Drugs and Poisons : the Chemistry of their Physiological Action, 141
Dust Explosions in Industry, The Problem of : W. E. Gibbs, 54, 92
Dyes, Coal Tar, 147
Dyestuff, New, of the Indigo Series, 505
Dyestuffs Acts, Opinions on the, 311, 541
Dyestuffs Committee, New Members of the, 74
Dyestuffs (Import Regulation) Act, 657
Dyestuffs Industry, Progress and Prospects of the, 256
Dyestuffs, Licences in, Applications for, 183, 411
Dye Users and British Dyes, 232
Dye Users and the Ruhr Occupation, 143

Earths, The Chemistry of the Rare, 694
Economic and Financial Conditions in Germany, 564
Edinburgh University, Technical Chemistry in, 392

Editorial Articles—

Acetylene Dangers, 137
Acid Plant, A Combination, 25
Activated Nitrogen, 558
Advertising, A High Witness to, 52
Air-Dried Peat, Production of, 688
Alcohol from Trent Amalgams, 1
Alkali Centenary, The, 24, 389, 415
Aluminium, The Corrosion of, 302
Applied Science Exhibition, An, 531
Armstrong's, Dr., Address at Cambridge, 663
Arsenic, Detection of, 3
Association of British Chemical Manufacturers : Directory of Members, 53
Baeyer : A Great Chemist, 530
Britain's Chances in Chemicals, 223
British Empire Exhibition, 327
British Trade Expansion, 325
Brunnen Mond Jubilee, The, 663
Budget Benefits, 417
By-Product Coking Developments, 587
Cambridge Meetings, The, 193, 505
Carbon Monoxide, Tests for, 664
Carpenter, Dr., Defends the Therm, 224
Chemical Education and Training, 135
Chemical Glassware Industry, The, 361
Chemical Imports and Exports, 477
Chemical Plant Exhibits at British Industries Fair, 25
Chemical Salesmanship, 78
Chemicals at the Fair, 191
Chemist or Pharmacist, 278, 389
Chemist, Training the Complete, 301
Chemist in Industry, The, 136
Chemistry in Agriculture, 77
Chemists and Prohibition, 689
Chemists Going into Industry, 609
Claude Process, Further Light on the, 359
Coal, Quality Certificates for, 664
Coal Costs, The Recent Increase in, 224
Coal Industry, Conditions in the, 78
Colloidal Clay Experiments, 165
"Colour Index," A British, 636
Colour Users and Dyestuffs, 665
Concrete, Integral Waterproofering for, 529
Cyanamide, The Problem of, 111
Dewar, Sir James, 327
Dyestuffs Committees, 53
Electronic Theory of Valency, 558
Endowment, Need for More Liberal, 585
Ernest Benn, Ltd., 381
Evaporation of Stored Liquids, 388
Exhibitions, Forthcoming, 476
Explosives, Annual Report on, 530

Editorial Articles—continued

Fluctuations in Makers' Prices, 113
Food Value of Synthetic Fats, 444
France and the Haber Process, 277
French Views on British Trading Methods, 388
German Apologia, A, 51
German Chemicals, Rising Prices of, 225
German Dyeworks, Seizure of, 531
German-Owned Chemical Plants in U.S.A., 476
German Potash and Nitrogen, 445
"Germocca," 477
Haslam, E. P., 193
Hydrocyanic Acid, Disinfecting with, 387
Industrial Oxygen, Research on, 635
Industrial Poisoning, 253
Insulin, Production of, 389
Iron Production and the Coke Shortage, 360
Isotopic Elements, 193
Leaching, A Conference on, 164
Manchester Referendum, A, 23
Materials for Equipment Construction, 504
Mercury, Industrial, Poisoning, 24
Metallurgical Research, 476
Metals, The Corrosion of, 417
Money from Ashes, 278
Mining Exhibition, The, 610
Motor Spirit from Vegetable Oils, 610
"National Fuel" for France, 416
National Physical Laboratory, 688
Neutral Sulphate, Small Works and, 252
Neutral Sulphate Difficulties, 136
Newspaper Insurance, Goodbye to, 225
Newspaper Press Fund Jubilee, 416
Newspaper Production, Cost of, 559
Nitrates, Export of, 504
Oil and Sulphur Problem, 586
Oils and Fats, The Chemistry of, 443
Oxygen, Outstanding Work on, 326
Pasteur, Louis, 587
Power Alcohol Production, 303
Preservatives in Food, 504
Professor Bone's Combustion Theories, 557
Professional Practice, Protecting, 3
Publicity for Chemistry, 611
Reinforced Concrete Problems, 192
Royal Institution's Need of Funds, 476
Ruhr Occupation, Effects of, 302
Sampling of Chemicals, The, 112
"Save the Surface," 2
Silica Gel, Reactivation of, 610
Smithell, Professor, Work of, 611
S.C.I. Finance, 637
Sulphate of Ammonia Output, 687
Tanks for Transport of Acids, 416
Tar Distillers' Programme, 192
Technical Chemistry, Degrees in, 277, 387
Therm, Judgment for the, 279
Town's Gas Developments, 529, 505
Unemployment Statistics, 163
United Chemical Merchants, 503
United States, Business Conditions in the, 586
Vitamins, The Indefinite Role of, 164
Water Gas Systems, Comparisons of, 636
White Lead, The New Report on, 360
Wireless Talks on Chemistry, 637
World's Chemical Supplies, The, 359
Young Chemist, The Case of the, 52

Egyptology, Application of Chemistry to, 19
Electrical Trades Directory and Handbook, 235
Electrolysis of Acetone Solutions of Potassium Chloro- and Tri-Chromates, 33
Electrolytic Zinc Co. of Australasia, Ltd., Annual Meeting, 9
Elimination of Waste, The, 641
Emulsoids and Chemical Reactions, 281
Enamelled Apparatus for Chemical Plant, 488
English China Clays, Ltd., 500
Evaporating and Leaching, Conference on, 168

Fade-Ometer, Testing by the, 9
Faraday Society, 63, 394, 425, 460
Fertilisers, Nitrogenous, The Present Position of : Dr. S. Williamson, 84
Finance and Industrial Research, 43
Fine Chemicals, British, Progress in, 167
Fine Chemicals at the British Industries Fair, 116
Flash-Point Temperatures of Oils, 32

Formaldehyde and Nitronaphthalenes, 236
French Potash Industry, The, 87, 672
Fuel from Ashes, Recovery of, 638
Fur Dyeing, Modern Methods of, 483

Gas Examiners, Qualifications of, 60, 119
Gaseous Combustion at High Pressures, 541
Gases, Compressed, Notes on the Handling of, 592
Gas Industry, Chemistry and the, 700
German Potash Industry, 594
German Potash and Nitrogen, 553
German Nitrogen Industry, 146
German (Reparation Recovery) Act, 148, 209
Germany, Economical and Financial Conditions in, 564
Glasgow Chemical Societies, 234
Glass Industry, A Directory of the, 367
Glass Trade, Wages in the, 463
Glass Tubes, Manufacture of Accurate, 613
Glycerin Producers, An Association of, 178
Granite, Chemicals from, 591
Government Training Grant Scheme, 20

Hafnium," 148, 237, 393
Hamburg Wax Market, 681
Hardwood, Distillation of, in Canada, 674
Heat-Resisting Glasses, Improvement in, 262
Heat Transference, 282
Hematite to Magnetite with Methane, Reducing, 38
Hydrates of Calcium Sulphate, 237
Hydrocarbons and Oils, Explosiveness of, 591
Hydrogenated Oils, Industrial Uses of, 445

Imperial Institute, Work of the, 570
Indian Indigo Cess Act, Abolition of, 209
Industrial Oxygen, Research Work on, 642
Industrial Poisoning and Works Chemists, 261

INSTITUTE OF CHEMISTRY :
Annual Meeting, 258
Pass Lists, 122
Edinburgh Section, 94
Huddersfield Section, 122, 209
Liverpool and North-West Section, 288
North-Eastern Section, 461

Institute of Metals, 32, 209, 285, 481
Institution of Chemical Engineers, 120, 308, 642
Institution of Engineering Inspection, 206, 539
Institution of Petroleum Technologists, 32, 513

INSTITUTION OF RUBBER INDUSTRY :
London Section, 144
Manchester Section, 97, 207

Institution of Welding Engineers, An, 210
Insulin, Manufacture of, 435, 469, 497, 551
Irish Chemistry Students at Birmingham, 145
Isotopes, The Origins of the Conception of, 509

John Cass, Sir, Technical Institute, 147

"Kynazite," Interesting Tests, 238

Lamp Black and Carbon Black, Production and Uses of : Rex Furness, 532
Leaching and Evaporating, Conference on, 168
Lead as a Material for Chemical Equipment, 709
Leeds Chemistry Professorship, 426

Legal Intelligence—

Brandt and Co., Arthur H. v. River Plate Steam Navigation Co., Ltd., 513
British Sulphate of Ammonia Federation v. Clan Line Steamers, Ltd., 220, 234
Calvert, Jackson v. Henry Ellison, 144
Colbrook Chemical Co., The, 657
Davis, W. H. D. v. Robinson Brothers, Ltd., 345
Holder, Herbert N. v. John Baird and Co., 158
Hull Municipal Hospital v. Major and Co., Ltd., 372
Humphrey, Arthur J. and Henry Grey, jun., Ltd. v. Lever Brothers, Ltd., 488
Michaels, Morris v. Vulcan International Transport Co., 236
Memon, Son and Co. v. British Danubian Trading Corporation, Ltd., 355
Midgley, Charles, Ltd. v. Taylor's Drug Co., Ltd., 74, 122
Moat, A. H. v. H. Vivian and Co., 627
Ofverberg and Co. v. Taylor and Co., of New York, 123
Taylor's Drug Co., Ltd. v. Veno Drug Co., 411
Usher, Frederick v. Elephant Chemical Co., Ltd., 243

Lever Brothers, Ltd., 442
Lime as a Plant Production Factor, 86
Lime in Agriculture, The Use of : N. V. S. Knibbs, 88
Liquid Air Rectification Plants, 145
Litophosphate Manufacture in France, 655
Low-Temperature Carbonsation, 400
Low-Temperature Carbonisation, Ltd.: Annual Meeting, 20

M.G.C. Manchester 1923 Year Book, 286
Margarine, The Analysis of : G. D. Elsdon, 450

Mazuri Strainer, The Patent, 372
McMullen, Colonel Joseph, 308
Mesothorium, Extraction of, 38
Metal Polishing and Grinding, 236
Metallurgical Chemistry, Recent Advances in : Elaine Eustice, 26
Metallurgical Coke, The Properties of, 372
Methane from Water Gas, Production of, 678
Methylated Spirit, New Prices for, 237
Micro-Organisms, Industrial Applications of, 35
Milk, The Chemistry of, 285
Mineral Resources of the Empire, 96
Mining Exhibition, 616, 671, 694
Molecule, Structure and Behaviour of the, 619, 640
Mond Nickel Process, Development of the, 646
Molecular Structure, Theories of, 619
Muspratt, Sir Max, on Trade Conditions, 59

Naphthalene in Coal Gas, 121
National Union of Scientific Workers, 60
Nicol Plastic Wood, 471
Nicholls Medallist, The, 344
Nitrate, Chilean v. Synthetic, 208
Nitrate of Soda, Demand for, 36
Nitrates from the Air, 401, 426, 459
Nitrogen Industry in the United States, The, 6
Nitrostarch, 713
Non-Ferrous Metals, Research into, 235
Northern Polytechnic Chemical Association, 310
Norway, Trade in, 567
Norwegian Carbide Plant, Abandonment of, 534

Obituary—

- Alexander, James Young, 65
 Bell, Thomas, 99
 Black, George, 650
 Burtt, Edwin W., 149
 Cotterill, John William, 123
 Cox, Arthur H., 11
 Fison, Dr. A. H., 149
 Goerz, Carl Paul, 65
 Hodges, James Hill, 179
 Holder, Sir John, 490
 Hülsken, Julius R. W., 544
 Leonard, Walter J. H., 179
 Lloyd, Frederick James, 188
 Lunge, Dr. George, 65
 Macdonald, Andrew, 99
 Miller, Thomas, 99
 Rontgen, Professor W. K. von, 179
 Sadler, Robert, 11
 Ward, James Lawrence, 123
 Weston, F. E., 57
- Oil and Colour Chemists' Association, 61, 176, 285, 486, 540
 Oil Fields in Texas, British Company's, 458
 Oil Hydrogenation, 365
 Oil Meter, A New, 695
 Oils, The Drying of, 61
 Olive Oil, The Manufacture of, 452
 Optical Society : Annual Exhibition, 8
 Ores, A Chemical Method of Working, 618
 Oxygen, Industrial, Research Work on, 642

P

- Packing of Goods for Export, 340, 401
 Paint and Varnish Technology, 344
 Paints, The Chemistry of, 345
 Patents, Reflections on, 511

Patent Specifications—

- Acetone, 377
 Acetates, Cellulose, 598
 Acid Liquids, Evaporating, 599
 Alcohol, 152
 Alcohol, Absolute, 103, 378
 Alkali Cellulose, 548
 Alkali and Alumina from Leucite, etc., Extracting, 577
 Alkali Metal Cyanides, Production of, 68
 Alkali Thiosulphate, Manufacture of, 677
 Alkaline Earth Sulphides, 520
 Alloys, Ferro-Chromium, Manufacture of, 241
 Alpha-Naphthylamines, Manufacture of a series of Substituted, 213
 Alum, Chrome, 15
 Alumina, Pure, Manufacture of, 466, 546
 Aluminium Chloride, Recovery of, 182, 241
 Amido Phenol Compounds, 598
 Amino-sulphonlic Acids, 152
 Ammonia, Synthetic Production of, 432
 Ammonia Synthesis, 69
 Ammonia, Catalytic Synthesis of, 350
 Ammonia, Recovering, from Gases, 293
 Ammonium Chloride, 626
 Ammonium Chloride Lyes, 677
 Anodes for Forming Percompounds, 707
 Anhydrous Metal Chlorides, Manufacture of, 102
 Arsenic Ores, Treatment of, 41
 Azo Compounds, Preparation of, 676
 Azo-Dyestuffs, Chromium Compounds of, 214
 Azo-Dyestuffs, Manufacture of, 152
 Barium Hydrate, 378
 Barium Oxide, Manufacture of, 151
 Bauxite, Extraction of Titanium Dioxide from, 14
 Beryllium, Compact Metallic, Manufacturing, 293
 Bleaching Liquor from Chlorine Gas, 599
 Butyl Chlorides, 214
 Carbazole Derivatives, 377
 Carbon, Activated, from Peat, etc., 706
 Carbonaceous Materials, Distillation of, 125
 Carbonaceous Materials, Treatment, 181, 292
 Carbonaceous Matter, Drying of, 376
 Caustic Soda, Manufacture of, 652
 Catalysts, particularly for Synthesis of Ammonia, 652
 Cellulose Acetates, 598
 Cellulose, Acetates, Dyeing, 68, 433

Patent Specifications—continued

- Cellulose Acetates, Treatment of, 68
 Cellulose Acetate Products, Treatment of, 376
 Cellulose, Acetylated, 125
 Cellulose, Ethers, Dyeing of, 625
 Cellulose from Wood, 268
 Cellulose Derivatives, Production of, 241
 Cellulose Ester Solutions, 127, 183
 Cellulose Materials, Chlorination of, 14
 Centrifugal Separators, 183, 268, 434, 708
 Charcoal, Active, 600
 Chlorine Derivatives, 494
 Chloro-ethyl-ester, Manufacture of, 349
 Chromate of Soda, Manufacture of, 625
 Chromium, Pure, Electrolytic Separation of, 677
 Classification of Mineral Particles, 464
 Coal, Carbonsizing, 317
 Coal Distillation of, 518, 519, 676
 Coal Tar, Dehydration of, 575
 Coal Gases, Recovery of Products from, 67
 Colloidal Ferric Oxide, 577
 Colloidal Matter, Separation of, from Liquids, 464
 Colouring Matters, Production of, 348
 Copper Ores, 67
 Crushing Mills, 151
 Crushing and Grinding Mill, 547
 Crystalline Mineral Materials, Manufacture of, 315
 Crystals, Drying, 268
 Crystallising, 545
 Decolorising Carbon, 127
 Desulphurising Oil, 376
 Detergents and Bleaching Agents, 599
 Detergent Agents, Manufacture of, 546
 Dihydro-Isoquinoline, Manufacture of Derivatives of, 151
 Dioxyperylene, 269
 Disinfectants, Process for the Manufacture of, 267
 Disintegrators, 214
 Disintegrating machines, 151
 Distillation of Carbonaceous Materials, 247, 315
 Distillation of Coal, 518, 519, 676
 Distilling Apparatus, 707
 Distilling Oil Shale, 13
 Dormic Aldehyde, Solidifying, 349
 Drugs, Synthetic, 213, 215
 Dry-Grinding Solid Materials, 518
 Drying or Evaporating Surfaces for Drying Moist Material, 213
 Dyeing Mixtures for Use in, 377
 Dyeing Textile Fabrics, 625
 Dyeing Wool, 69
 Dyes, 152, 466, 494, 600, 626, 676, 707
 Dyestuff Preparations for Household Use, 403
 Dyestuffs, Manufacture of, 291
 Dyestuffs, Red Basic, 377
 Dyestuffs, New Ortho-Oxyazo, Manufacture of, 267
 Dyestuffs of the Triarylmethane Series, Manufacture of, 214
 Dyestuffs, Mordant, Manufacture of, 213
 Dyestuffs, Manufacture of, 41
 Electrodes Suitable for Electrolytic Cells, 404
 Electrolysis, 182, 317
 Electrolysing Fused Salts of Metals, 706
 Electrolytic Cells, 405
 Emulsions, 576
 Emulsions, Resolving Water-in-Oil, 520
 Emulsions, Production of, 181
 Endothermic Gas Reactions, Process for Carrying Out, 465
 Esters, Production of, 464
 Evaporating Acid Liquids, 599
 Exothermic Catalytic Reactions between Gases, 676
 Fat and Oil Splitting Reagents, 432
 Fats and Oils, 546, 652, 707
 Fatty Acid Anhydrides, 576
 Fatty Oils, Oxidising, 466
 Ferro-Phosphorous Acid, Production of, 182
 Fertiliser, Material suitable for, 291
 Fertilisers, 127, 377, 518
 Ferric Hydroxide, 576
 Filters, 67
 Filter Elements, 349
 Filtering Apparatus, 519
 Formaldehyde, 127
 Formaldehyde, Condensation Products of, 466
 Fuels, Solid, Concentration of, 652
 Furnaces, Roasting, 433
 Furnaces, Tunnel, 600
 Gas or Air Washers or Scrubbers, 405
 Gas Generators, 101, 624
 Gas Washers, etc., 518
 Gas, Water, Methanation of, 546
 Gaseous Mixtures, Separation of, 102, 126, 377, 600, 626

Patent Specifications—continued

- Gases, Drying, 101
 Gases, Absorbing and Recovering, 215
 Gases and Vapours, Fractional Separation of, 652
 Gases, Liquefying, 600
 Gases from Vapours, Means for Removing, 598
 Gas Producers, 350
 Gases, Washing and Scrubbing of, 405
 Gases, Drying and Separating, 102
 Gases, Treating, 152
 Gases, Purifying, 152, 153, 182, 576
 Glycerin Soap, 677
 Granular Material Conveyance of, 316
 Grinding Machines, 151
 Grinding Mills, 151
 Grinding or Crushing Mills, 405
 Gums, Treatment of, 42
 Heat Treatment by Molten Metal, 208
 Hexamethylene-Tetramine, 625
 Hydro-Benzol and Homologues, Deriving, 349
 Hydrocarbons, 68, 102, 125, 183, 242, 291, 315, 348, 376, 464, 494, 575, 576, 625, 652, 653, 654
 Hydrochloric Acid, 14, 653
 Hydrocyanic Acid from Gases, 126
 Hydrogen, Manufacture of, 519
 Hypochlorites, Basic Calcium, 101
 Hypochlorites and Hypochlorous Acid, 599
 Indiarubber, Vulcanising, 243
 Inks, Manufacture of, 707
 Insecticidal and Fungicidal Preparations, Manufacture of, 546
 Intermediate Products for Dyestuffs, Manufacture of, 493
 Iron, Process for Manufacture of, 214
 Isomethyl, 127
 Latex, Treatment of, 181
 Lead Monoxide, 103
 Lead Oxide, 126
 Lead Oxide, Production of, 182
 Lead Oxide, Manufacture of, 125
 Lime, Hydration of, 242
 Liquid Fuel, 653
 Liquids, Concentrating, 518
 Liquids, Treating with Gases, 102, 378
 Liquids, Treating with Chemical Reagents, 213
 Liquids, Purifying, 152
 Liquid into Contact with Gases, Apparatus for Bringing, 151
 Lithopone, Production of, 15
 Lithopone, Manufacture of, 13
 Lixiviating Apparatus, Mechanically Acting, 624
 Magnesium Carbonate, 547
 Manure, Manufacture of, 151
 Methane, Chlorination of, 577
 Mica, Plastic Masses from, 348
 Mineral Oil, Cracking, to Produce Gasoline, 707
 Mineral Oils, Treatment of, 376
 Mineral Oils and Spirits, Desulphurising, 599
 Monazite Ores, Treatment of, 14
 Mond Gas Process, Recovery of the Sensible Heat of Gases in, 492
 Metaldehyde, Manufacture of, 126
 Metals from their Solutions, Recovering, 404
 Metals contained in Ores, Recovering, 404
 Menthol, 127
 Menthone, 127
 Minerals, Separation of, 42
 Nitrate, Papaverine, Preparation of, 242
 Nitrocellulose, Treating, 548
 Nitrogen, Atmospheric, Recovery of, Fixed, 575
 Nitrogen, Atmospheric, Fixation of, 291
 Nitrogen, Fixation of, 213, 377
 Nitrogen Oxides, 653
 Oils, Low Boiling, Manufacture of, 315
 Oil and Waxes, Refining, 548
 Oils, Cracking, 653
 Oils, Mineral, and Spirits, Desulphurising, 599
 Oils, Purifying, 433
 Oils, Refining of, 706
 Ore Briquettes, Making, 652
 Ores, Concentrating, 520
 Ores, Gold and Silver Bearing Antimony, Treatment of, 493
 Ores, Phosphate, Treatment of, 14
 Ores, Treatment, 69, 267, 343, 433
 Organic Mercury Derivatives of Aurin Tricarboxylic Acid, etc., 576
 Organic Compounds, Chlorination of, 316
 Organo-Arsenic Compounds, 215
 Oxygen, Separating, from Atmospheric Air, 292
 Paints, Manufacture of, 492, 546, 707
 Para-aminophenol, 548
 Petroleum, Distilling, 708
 Petroleum, Refining, 652

Patent Specifications—continued

- Phenol-formaldehyde condensation products, 292
 Phenol and Formaldehyde, Manufacture of Resinous Products of Condensation from, 181
 1-Phenylimino-2-Naphthoquinone, 242
 Phosphoric Acid, Production of, 182
 Phosphorus Pentoxide, Manufacture of, 676
 Pigments, Manufacture of, 492
 Plastic Compositions, 493
 Plastic Compositions having a Basis of Cellulose Ester, 241
 Plastic Materials, Manufacture of, 241
 Pulverising Machines, 101
 Reactions, Chemical, Process and Furnaces for, at High Temperatures, 598
 Resins, 42, 653
 Retorts, Horizontal and Inclined, 576
 Rubber, Manufacture of, 349
 Rubber, Treatment of, 101
 Rubber, Vulcanisation of, 42
 Salts, Crystallising, 600
 Salts of 1 : 3-Dinitro-4 : 5-Dinitro-Benzene, Manufacture of, 125
 Superphosphates, Manufacture of, 151
 Separation of Minerals, 42, 624
 Silk, Artificial, 103
 Soaps, 547
 Sodium Diethyl Barbitalic Acid and Phenyl-Ethyl Barbitalic Acid, Compounds of, 68
 Sodium Nitrate, 69, 317
 Solid Substances, Finely Subdivided, 14
 Starch, 43
 Sugar, Clarification of, 432
 Sugar, Extraction of, 68
 Sulphate of Ammonia, Drying and Neutralising, 547
 Sulphate of Ammonia, 406, 676
 Sulphate of Lead Water Paste, Conversion of, into Oil Paste, 214
 Sulphur Burning, 317, 676
 Sulphurated Hydrogen, 153
 Sulphuric Acid, 653
 Sulphurising Organic Compounds, 624
 Sulphur Lubricant, 69
 Sulphur Protochloride, Manufacture of, 181
 Tanning, 432
 Tanning Agent, 576
 Tanning Extracts, Manufacture of, 41
 Tar, Distillation of, 152
 Tars, Hydrocarbon, 125
 Thymol, Manufacture of, 676
 Tin, Refining, 708
 Titanium Dioxide from Bauxite, Extraction of, 14
 Titanium Pigments, Producing, 465
 Tungsten Compounds from Tungsten Ore, Production of, 41
 Tungstic Oxide, Production of, 101
 Urea, 127, 707
 Vanadium-containing Materials, Process of Reducing, 518
 Vapours, Recovering Gases from, 598
 Vat Dyestuffs Derived from Anthraquinone, Manufacture of, 519, 707
 Viscose, Manufacture and Production of, 493
 Waste Liquors, Treating certain, 182
 Wood, Softening, 493
 Zinc, Extracting, 577
 Zirconium Alloys, Making, 653

- Patents for Chemical Products, 33
 Perkin Medal for American Chemist, The, 10, 98

- Phosphate Beds in Morocco, 368
 Phosphorus, The Oxidation of, 683
 Photo-Synthesis of Plant Products, 172
 Physical Society of London: 13th Annual Exhibition, 8
 Physics and Sewage Disposal, 399
 Picric Acid, 649
 Pigments in Rubber, The Use of, 398
 Plant Pests, Chemical Treatment of, 89
 Plant Pigments, Chemistry of, 122
 Plant Products, Photo-Synthesis of, 172
 Plaster of Paris, 237
 Poison Gas in War, 384
 Poison Gas as a Cure for Disease, 537, 591
 Poisons, Proposed Colouring of, 497
 Potash and Rare Metals from Oil Shales, 488
 Potash Industry in Germany, 594
 Potash, Notes on the Fertilising Effects of: G. A. Cowie, 85
 Potassium Chloride in Explosives, 716
 Powders, The Physical Properties of, 460
 Power Alcohol from Calcium Carbide: Rex Furness, 280, 304
 "Premier" Mill in Chemical Industry, The, 329
 "Problem of Solution," The, 283
 Preservative Materials for the Chemical Industry, 568
 Pulverised Fuel, The Use of, 397

R

"Ransome" Electric Runabout Crane, 173
Rare Earths, The Chemistry of the, 694
Reparation Dyes in India, Disposal of, 10
Research Laboratory, A New, 243

Reviews—

Allotropy, The Theory of (Dr. J. S. Thomas), 140
Applied Chemistry, Dictionary of (Sir Edward Thorpe), 170
Atoms (J. Perrin), 364
Atoms, The Structure of (A. Stock), 335
Briquetting (A. L. Stillman), 333
Chemical Technology of Oils, Fats, and Waxes (Dr. J. Lewkowitz), 335
Chemist's Year Book, The, 335
Chemistry, A First Book in, (R. H. Bradbury), 335
Chemistry of To-day (P. G. B.), 140
Cours de Chimie Organique (F. Swarts), 171
Dental Materials, The Chemistry of (Professor G. S. Gibson), 171
Destructive Distillation of Wood, The (H. M. Bunbury), 480
Dyestuffs Derived from Pyridine, Quinoline, Acridine, and Xanthene (J. T. Hewitt), 141
Elements of Glass Blowing (H. P. Waran), 481
Emulsions and Emulsification, The Theory of (W. Clayton), 333
Flavouring Materials—Natural and Synthetic (A. Clarke), 333
Generation and Utilisation of Cold, The, 364
Industrial Organic Chemistry (S. P. Sadtler), 364
Inorganic Chemistry (G. S. Newth), 335
Method for the Identification of Pure Organic Compounds, A (S. P. Mulliken), 335
Modern Gasworks Chemistry (Geoffrey Weyman), 171
Nitrogen Industry, The (J. R. Partington), 334
Optical Methods in Control and Research Laboratories (J. N. Goldsmith), 335
Organic Chemistry, Theories of (Dr. F. Henrich), 141
Organic Synthesis (J. B. Conant), 335
Phase Rule and Its Applications, The (A. Findlay), 364

Reviews—continued

Quantitative Chemical Analysis (A. C. Cumming and S. A. Kay), 170
Recovery of Volatile Solvents, The (Clark Shove Robinson), 481
Researches on Cellulose (C. F. Cross and C. Dorée), 4
Richter's Organic Chemistry, 335
Second Year College Chemistry and Manual of Laboratory Exercises (W. H. Chapin), 481
Surface Tension and Surface Energy (R. S. Willows and E. Hatschek), 481
Tables Annuelles de Constantes et Données Numériques, 2
Tested Method of Laboratory Organisation, A (Seymour Pile), 481
Theoretical Chemistry, Outlines of (F. Getman), 335
Vat Colours (J. F. Thorpe and C. K. Ingold), 480
Vital Factors of Foods : Vitamins and Nutrition (Carleton Ellis and Annie L. MacLeod), 480

Road Tar Specification, 209
Rosin and Turpentine in 1922, 206
Royal Institution, 172, 489, 541

Royal Society of Arts, 122, 147, 177, 205,

262, 401, 459

Rubber Industry, Technology in the, 144

Rubber Vulcanisation of, 147, 177, 205

Rubber Accelerators, New, 176

Rubber Latex Precipitates and Dispersions, 328

Ruhr Occupation and Dye Users, 143,

263

Russia, Trade Concessions in, 569

Russia, Position of the Chemical Industries of, 484

S

SAFEGUARDING OF INDUSTRIES ACT :—

Exemptions from duty, 235
Formaldehyde, Complaint against, 210, 669, 702
Manchester Traders and, 9, 28
Rochelle Salts, Complaint against, 210

Salt Trade Prospects Satisfactory, 371

Scientific Periodicals, List of, 263

Sewage Treatment by Bio-Aeration, 287

Science in Public Affairs, 132

Science on Human Life, The Influence of:

A. R. Tankard, 390, 418

Scientific Instruments, 8
Scientific Expeditionary Research Association, A, 64
"Sentinel" Waggon, 427
Shipping Conditions, Two Reports on, 574
Sicilian Sulphur Industry, 369
Silica Dust Danger, Committee to Investigate, 210
Sylvanus Thompson Memorial Lecture, 63

Smoke Prevention, A Practical Demonstration of, 515

Sowpoxers' Strike in London, 48, 76, 108

Society of Glass Technology, 563

SOCIETY OF CHEMICAL INDUSTRY :—

Annual Meeting at Cambridge, 697, 674

Birmingham Section, 74, 236, 281, 365, 399, 426

Bristol Section, 262

Chemical Engineering Group, 282

Edinburgh Section, 94, 269

Glasgow Section, 263

London Section, 35, 145, 261, 396, 510, 616

Manchester and Liverpool Sections, 33, 98, 146, 259, 396, 511

Newcastle Section, 121

Nottingham Section, 345, 479

SOCIETY OF DYERS AND COLOURISTS :—

London Section, 284, 306, 483

Manchester Section, 95, 461

Midland Section, 132

Scottish Section, 63

Society of Public Analysts, 148, 177, 286, 393, 508

Sodium Thiosulphite, A New Process for the Manufacture of, 146

Solvents, The Recovery of, 207

"Stainless Steel" in the Chemical Industry, 590

Stainless Steel and Iron, 425

Stainless Steel, 235

Steam Generation, 63

Stirling Stove, The, 367

Sulphate of Ammonia, Neutral, Difficulties, 254

Sulphate of Ammonia Prices, 141

Sulphates, Volumetric Estimation of, 674

Sulphur Dioxide Leaching, Precipitation and Flotation, 263

Sulphur Industry of the World, The, 369

Sulphuric Acid Chambers, The History of

of Void Tower ; P. Parrish, 692

Sulphuric Acid in India, 608

Sulphuric Acid Plant Improvements, 120

Sulphuric Acid and Ferric Sulphate Solutions, 373

Sulphuric Acid Process, New American, 95
Superphosphate Industry, Crisis in the, 350
Superphosphate, Recent Developments in the Manufacture of : Alexander Ogilvie, 690

T

Tannin Materials, The Leaching of, 506
Tantalum, Properties and Uses of, 489

Tar Still Manufactures, 353
Technical Chemistry in Edinburgh University, 392

Titanic Acid, 95

Titanium White, A Use for, 553

Titanium, Its Uses, Properties and Sources of Supply, 331

Trade and Industry in Germany, 310

Trade Returns, 62, 174, 286, 487, 543, 668

Tully Gas Developments, 538

Turpentine and Rosin in 1922, 206

Turpentine Substitute, Disadvantages of, 673

U

United Alkali Co., The Centenary of the, 29, 409, 421

United Premier Oil and Cake Co., 371

"Universal Gas Mask," A, 542

University of Birmingham Chemical Society, 96, 141

Use of the Title "Chemist," 175

V

Vacuum Device, A Simple Regenerative, 515

Valency, New Theories of : Dr. E. B. R. Prideaux, 138

Valuation of Dyestuffs by Titration Methods, 284

Viscometry and Plastometry, 176, 295

Void Tower Sulphuric Acid Chambers, The History of : P. Parrish, 692

Volumetric Analysis, Accuracy in, 478

W

Waste, The Elimination of, 641

"Westminster Bank, Ltd." 158, 208

White Lead, Manufacture of, 344

Wood Distillation, Experiments in, 378

Wood Extracts, Manufacture of, 37

World's Chemical Supplies, The, 366

X

X-Rays and Crystal Structure, 209

